CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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This is UNEVALUATED Information

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
THE APPRAISAL OF CONTENT IS TENTATIVE.
(FOR KEY SEE REVERSE)

1. Machine tools form the basis of Hungarian industry and the machine-tool industry itself is now in a position to offer recent perfected types of lathes, milling machines and drills both for the Hungarian home market and for export to Satellite and other countries. 25X1

2. The degree of hardness of the basic materials used for the production of machine tools is controlled by a special process known as Brinnel. The Hungarians achieve a super finish to their tooling processes which provides a mirror-like surface and absolute precision, and ensures the lifting capacity of the bearings, prevents seizure, and reduces wear to a minimum. Noise and vibration of the gears is slight. The gears are very hard wearing due to the machining of the "bats de vitesse" on high precision machines. 25X1

3. The Hungarians have noticed that the most popular machine tool is one of normal dimensions and of low horse power made according to modern techniques. 25X1

4. Export orders are mainly for machines normally intended for repair shops and small factories. In addition the Hungarians maintain an after-sales service including an annual overhaul for their exported machines.

5. Machine tools manufactured for countries whose industry is not very far advanced are as follows:

   a. Bench drill - series FP

   b. Pillar drilling machine - Series FO

   c. High capacity pillar drilling machine - series OFZ.

   These machines are driven by motors mounted on a stand by means of trapezoidal belts. The gear boxes are four-speed.

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(NOTE: Washington distribution indicated by "X"; Field distribution by "#".)

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6. Sectional punching and shearing machine - model LSU 16. This machine is constructed of sheet steel. It has three functions:

   a. Cutting flat bars

   b. Cutting sectional iron

   c. Punching

7. Polishing block - model "Turan". This item is in demand by small factories, repair shops, and garages.

8. Shaping - machine PW 550. This machine has a high capacity and is suitable for tooling of flat and sectional surfaces.

9. Lathe - model "Ean". This is used for roughing-down and finishing work. Its "Norton" box (sic) permits a large amount of threading without change of wheel.

10. Stirrup-saw model "KF". This machine is constructed in such a way so as to eliminate frequent breaks.

11. Universal milling machines and radial drilling machines.

   a. Universal milling machine "UF 21". Advantages: Multiple uses, facility of operation, reliability and precision. Its main characteristic is its pyramid-shaped frame, which provides maximum stability. The frame has a stand which encloses a large reservoir for the liquid used for cooling the tools.

   b. Milling machine UF 22. The main characteristic is the large number of speeds provided for the spindle and the feed steps ("gradins d'avance") which fulfill the most varied milling requirements.

   c. Radial - drilling machines RF 2 and RF 3. These machines are used for drilling and boring and screwing (tapping). They are constructed with a view to achieving speed in the drilling of castings steel and other metals.

   d. The most recent Hungarian invention is the universal milling-machine "ME 1000" (u.f.d)

12. Other machine tools.

   a. Turret lathes with 47 mm. drum and compressed air fixing device.

   b. 200 HDP lathes with or without guide screw with main spindle revolutions at 2800 per minute.

   c. Tapping machines. A universal machine for grinding spindles with two different "entrepoints".

13. The heavy machine-tool industry which started in Hungary in 1953 is at present producing machine tools which include two large lathes of 1000 mm. and 1250 mm. diameter and a boring mill with a diameter of about two meters.

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Comment: This report is at least indicative of the models available for export.